LISTING OF THE CLAIMS

The listing of claims provided below will replace all prior versions, and listings, of claims in the application.

Listing of claims

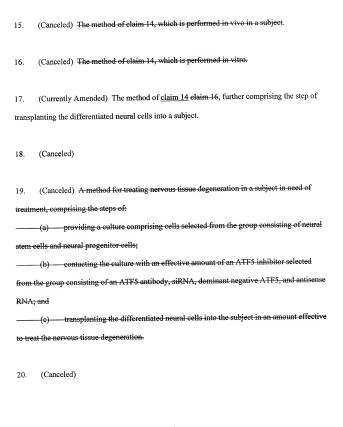
- (Currently amended) A method for promoting <u>in vitro</u> differentiation of a neural stem
 cell or a neural progenitor cell into a differentiated neural cell, comprising inhibiting ATF5 in the
 cell with a specific inhibitor of <u>dominant negative</u> ATF5 in an amount effective to decrease the
 activity of ATF5 in the cell and promote neural differentiation of the cell.
- (Previously presented) The method of claim 1, further comprising the step of contacting the neural stem cell or neural progenitor cell with at least one neurotrophic factor.
- (Previously presented) The method of claim 1, wherein the differentiated neural cell is selected from the group consisting of an astrocyte, an astroglial cell, a neuron, an oligodendrocyte, an oligodendroglial cell, and a Schwann cell.
- (Canceled) The method of claim 1, wherein the differentiated neural cell expresses enhanced green fluorescent protein (eGFP).
- (Canceled) The method of claim 1, wherein the ATF5 inhibitor is selected from the group consisting of an ATF5 antibody, siRNA, dominant negative ATF5, and antisense RNA.

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- (Canceled) The method of claim 1, wherein ATF5 is inhibited in the neural stem cell or neural progenitor cell in vivo in a subject.
- (Canceled) The method of claim 1, wherein ATF5 is inhibited in the neural stem cell or neural progenitor cell in vitro.
- (Currently Amended) The method of <u>claim 1 elaim 7</u>, further comprising the step of transplanting the differentiated neural cell into a subject.
- (Previously presented) The method of claim 8, wherein the subject is an embryo.
- 10. (Previously presented) The method of claim 8, wherein the subject is a human.
- (Previously presented) The method of claim 8, wherein the subject has nervous tissue degeneration.
- 12. (Canceled)
- 13. (Canceled)
- 14. (Currently Amended) A method for inducing neural cell differentiation <u>in vitro</u>, comprising contacting a cell selected from the group consisting of a neural stem cell and a neural progenitor cell with an amount of a specific <u>dominant negative</u> ATF5 inhibitor effective to

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induce differentiation.



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21-31. (Canceled)

- 32. (Currently Amended) A method for isolating a population of differentiated neural cells, comprising:
- (a) providing a culture comprising cells selected from the group consisting of neural stem cells and neural progenitor cells;
- (b) transfecting the culture with a nucleic acid, wherein said nucleic acid comprises a sequence encoding an inhibitor of a dominant negative ATF5 and a sequence encoding [[a]] enhanced green fluorescent protein, and wherein the inhibitor is specific for ATF5, and is in an amount effective to produce differentiated neural cells;
- (c) detecting expression of the <u>enhanced green fluorescent</u> protein in the differentiated neural cells; and
- (d) isolating the differentiated neural cells that express the enhanced green fluorescent protein.

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